Page 15, line 20, after "there" insert --is--.

Page 23, line 13, delete "the ratio of";
line 19, delete "the ratio of";
line 23, delete "the ratio of".

Page 25, line 5, delete "the ratio of".

IN THE CLAIMS

Please cancel claim 22 without prejudice or disclaimer of the subject matter thereof.

Please amend claims 18, 20-21, 24, and 26-30 as follows:

18. (Twice Amended) An apparatus for storing data comprising:

a plurality of storage units for storing data in a plurality of data groups and error correcting data corresponding to each of the data groups, the storage units being susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

a controller for performing processing of reconstructing the affected data [stored in any of the storage units in which a fault has occurred] based on all other data [of a corresponding] belonging to each of the at least one of the data groups to which the affected data belongs and [corresponding] error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs

wherein the controller determines a preference to be given to the processing of reconstructing data.

20. (Twice Amended) An apparatus for storing data according to claim 25, wherein the apparatus for storing data is connectable to a host unit which issues data read/write requests to the apparatus for storing data; and

wherein the controller performs the processing of reconstructing data instead of processing of data read/write requests from [a] the host unit according to the preference.

21. (Amended) An apparatus for storing data <u>connectable to a</u>

host unit which issues data read/write requests to the

apparatus for storing data, the apparatus for storing data

comprising:

a plurality of storage units for storing data in a plurality of data groups and error correcting data corresponding to each of the data groups, the storage units being susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

a controller for performing processing of reconstructing the affected data [stored in any of the storage units in which a fault has occurred] based on all other data [of a corresponding] belonging to each of the at least one of the data groups to which the affected data belongs and [corresponding] error correcting data corresponding to each of

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the at least one of the data groups to which the affected data belongs, and processing of data read/write requests from [a] the host unit;

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wherein the controller determines whether to give preference to the processing of reconstructing data or to the processing of data read/write requests, and performs the processing to which preference is given based on a predetermined limit time.

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24. (Twice Amended) An apparatus for storing data connectable to a host unit which issues data read/write requests to the apparatus for storing data, the apparatus for storing data comprising:

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a plurality of storage units for storing data in a plurality of data groups and error correcting data corresponding to each of the data groups, the storage units being susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

a controller for performing processing of reconstructing the affected data [stored in any of the storage units in which a fault has occurred] based on all other data [of a corresponding] belonging to each of the at least one of the data groups to which the affected data belongs and [corresponding] error correcting data corresponding to each of the at least one of the data groups to which the affected data

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belongs, and processing of data read/write requests from [a]
the host unit;

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wherein the controller controls an amount of time for the processing of reconstructing data within a unit time based on a predetermined limit time.

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26. (Amended) An apparatus for storing data <u>connectable to a</u> host unit which issues data read/write requests to the apparatus for storing data, the apparatus for storing data comprising:

a plurality of storage units for storing data in a plurality of data groups and error correcting data corresponding to each of the data groups, the storage units being susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

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a controller for performing processing of reconstructing the affected data [stored in any of the storage units in which a fault has occurred] based on all other data [of a corresponding] belonging to each of the at least one of the data groups to which the affected data belongs and [corresponding] error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, and processing of data read/write requests from [a] the host unit.

wherein the controller controls an amount of the processing of reconstructing data based on a predetermined limit time.

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27. (Twice Amended) An apparatus for storing data

connectable to a host unit which issues data read/write

requests to the apparatus for storing data, the apparatus for storing data comprising:

a plurality of storage units for storing data in a plurality of data groups and error correcting data corresponding to each of the data groups, the storage units being susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

a controller for performing processing of reconstructing the affected data [stored in any of the storage units in which a fault has occurred] based on all other data [of a corresponding] belonging to each of the at least one of the data groups to which the affected data belongs and [corresponding] error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, and processing of data read/write requests from [a] the host unit;

wherein the controller determines an amount of [performing] the processing of reconstructing data instead of the processing of data read/write requests such that the

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processing of reconstructing data is completed within a fixed period of time.

28. (Twice Amended) An apparatus for storing data connectable to a host unit which issues data read/write requests to the apparatus for storing data, the apparatus for storing data comprising:

a plurality of storage units for storing data in a plurality of data groups and error correcting data corresponding to each of the data groups, the storage units being susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

a controller for performing processing of reconstructing the affected data [stored in any of the storage units in which a fault has occurred] based on all other data [of a corresponding] belonging to each of the at least one of the data groups to which the affected data belongs and [corresponding] error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, and processing of data read/write requests from [a] the host unit;

wherein the controller performs the processing of reconstructing data in preference to the processing of data read/write requests such that the processing of reconstructing data is completed within a fixed period of time.

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29. (Twice Amended) An apparatus for storing data connectable to a host unit which issues data read/write requests to the apparatus for storing data, the apparatus for storing data comprising:

a plurality of storage units for storing data in a plurality of data groups and error correcting data corresponding to each of the data groups, the storage units being susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

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a controller for performing processing of reconstructing the affected data [stored in any of the storage units in which a fault has occurred] based on all other data [of a corresponding] belonging to each of the at least one of the data groups to which the affected data belongs and [corresponding] error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, and processing of data read/write requests from [a] the host unit;

wherein the controller performs the processing of reconstructing data instead of the processing of data read/write requests such that the processing of reconstructing data is completed within a fixed period of time.

1 30. (Twice Amended) An apparatus for storing data connectable to a host unit which issues data read/write

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requests to the apparatus for storing data, the apparatus for storing data comprising:

a plurality of storage units for storing data in a plurality of data groups and error correcting data corresponding to each of the data groups, the storage units being susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

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a controller for performing processing of reconstructing the affected data [stored in any of the storage units in which a fault has occurred] based on all other data [of a corresponding] belonging to each of the at least one of the data groups to which the affected data belongs and [corresponding] error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, and processing of data read/write requests from [a] the host unit;

wherein the controller gives a preference to the processing of data read/write requests and performs the processing of reconstructing data within a remaining time.

Please add new claims 32-44 as follows:

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--32. An apparatus for storing data connectable to a host unit which issues data read/write requests to the apparatus for storing data, the apparatus for storing data comprising:

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a plurality of storage units for storing data in a plurality of data groups and error correcting data corresponding to each of the data groups, the storage units being susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

a controller for performing processing of reconstructing the affected data based on all other data belonging to each of the at least one of the data groups to which the affected data belongs and error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, and processing of data read/write requests from the host unit;

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wherein the controller determines an amount of the processing of reconstructing data instead of the processing of data read/write requests based on a predetermined time.

An apparatus for storing data comprising:

a plurality of storage units; and

a controller connected to the storage units;

wherein the storage units store data in a plurality of data groups and error correcting data corresponding to each of the data groups;

wherein the storage units are susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has

occurred, the affected data belonging to at least one of the data groups; and

wherein the controller performs processing of reconstructing the affected data based on all other data belonging to each of the at least one of the data groups and error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, and determines a preference to be given to the processing of reconstructing data.

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An apparatus for storing data according to claim 32, wherein the controller determines the preference based on a predetermined limit time.

An apparatus for storing data according to claim 24, wherein the apparatus for storing data is connectable to a host unit which issues data read/write requests to the apparatus for storing data; and

wherein the controller performs the processing of reconstructing data instead of processing of data read/write requests from the host unit according to the preference.

36. An apparatus for storing data connectable to a host unit which issues data read/write requests to the apparatus for storing data, the apparatus for storing data comprising:

- a plurality of storage units; and
- a controller connected to the storage units;

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wherein the storage units store data in a plurality of data groups and error correcting data corresponding to each of the data groups;

wherein the storage units are susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

wherein the controller performs processing of reconstructing the affected data based on all other data belonging to each of the at least one of the data groups and error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, performs processing of data read/write requests from the host unit, determines whether to give preference to the processing of reconstructing data or to the processing of data read/write requests, and performs the processing to which preference is given based on a predetermined limit time.

An apparatus for storing data connectable to a host unit which issues data read/write requests to the apparatus for storing data, the apparatus for storing data comprising:

a plurality of storage units; and

a controller connected to the storage units;

wherein the storage units store data in a plurality of data groups and error correcting data corresponding to each of the data groups;

wherein the storage units are susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

wherein the controller performs processing of reconstructing the affected data based on all other data belonging to each of the at least one of the data groups and error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, performs processing of data read/write requests from the host unit, and controls an amount of time for the processing of reconstructing data within a unit time based on a predetermined limit time.

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- An apparatus for storing data connectable to a host unit which issues data read/write requests to the apparatus for storing data, the apparatus for storing data comprising:
 - a plurality of storage units; and
 - a controller connected to the storage units;

wherein the storage units store data in a plurality of data groups and error correcting data corresponding to each of the data groups;

wherein the storage units are susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

wherein the controller performs processing of reconstructing the affected data based on all other data belonging to each of the at least one of the data groups and error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, performs processing of data read write requests from the host unit, and controls an amount of the processing of reconstructing data based on a predetermined limit time.

39. An apparatus for storing data connectable to a host unit which issues data read/write requests to the apparatus for storing data, the apparatus for storing data comprising:

a plurality of storage units; and

a controller connected to the storage units;

wherein the storage units store data in a plurality of data groups and error correcting data corresponding to each of the data groups;

wherein the storage units are susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

wherein the controller performs processing of reconstructing the affected data based on all other data belonging to each of the at least one of the data groups and error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, performs processing of data read/write requests from the host

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unit, and determines an amount of the processing of reconstructing data instead of the processing of data read/write requests such that the processing of reconstructing data is completed within a fixed period of time.

40. An apparatus for storing data connectable to a host unit which issues data read/write requests to the apparatus for storing data, the apparatus for storing data comprising:

a plurality of storage units; and

a controller connected to the storage units;

wherein the storage units stores a plurality of data groups and error correcting data corresponding to each of the data groups;

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wherein the storage units are susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

wherein the controller performs processing of reconstructing the affected data based on all other data belonging to each of the at least one of the data groups and error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, performs processing of data read/write requests from host unit, and performs the processing of reconstructing data in preference to the processing of data read/write requests such that the processing of reconstructing data is completed within a fixed period of time.

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An apparatus for storing data connectable to a host unit which issues data read/write requests to the apparatus for storing data, the apparatus for storing data comprising:

a plurality of storage units; and

a controller connected to the storage units;

wherein the storage units store data in a plurality of data groups and error correcting data dorresponding to each of the data groups;

wherein the storage units are susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and



wherein the controller performs processing of reconstructing the affected data based on all other data belonging to each of the at least one of the data groups and error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, performs processing of data read/write requests from the host unit, and performs the processing of reconstructing data instead of the processing of data read/write requests such that the processing of reconstructing data is completed within a fixed period of time.

An apparatus for storing data connectable to a host unit which issues data read/write requests to the apparatus for storing data, the apparatus for storing data comprising:

a plurality of storage units; and

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a controller connected to the storage units;
wherein the storage units store data in a plurality
of data groups and error correcting data corresponding to each
of the data groups;

wherein the storage units are susceptible to a fault occurring in any of the storage units, the fault affecting data stored in any of the storage units in which the fault has occurred, the affected data belonging to at least one of the data groups; and

wherein the controller performs processing of reconstructing the affected data based on all other data belonging to each of the at least one of the data groups and error correcting data corresponding to each of the at least one of the data groups to which the affected data belongs, performs processing of data read/write requests from the host unit, and gives a preference to the processing of data read/write requests and performs the processing of reconstructing data within a remaining time.

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An apparatus for storing data according to claim MZ, wherein the controller gives the preference based on a predetermined limit time.

44. An apparatus for storing data connectable to a host unit which issues data read/write requests to the apparatus for storing data, the apparatus for storing data comprising:

- a plurality of storage units; and
- a controller connected to the storage units;